

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2257	257/295.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/01 21:17
L2	581	257/204.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/01 21:17
L3	1651	(magnetic with element) and pinned and nonmagnetic and free and ferromagnetic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/01 21:27
L4	1372	L3 and (free with ferromagnetic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/01 21:27
L5	10	L4 and (free with (low with saturation with magnetization)) and (spin adj transfer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/01 21:53
L6	9	("0105827" "0059588" "6381106" "6532164" "6781872" "0007398").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/01 22:08
L7	1	((magnetic adj element) and (pinned adj layer) and (spacer with magnetic) and ((free adj layer) with magnetization) and (ferromagnetic adj material) and (switched with (spin adj transfer))).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/01 22:10
S1	1365	(magnetic with element) and pinned and nonmagnetic and free and ferromagnetic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:06

## EAST Search History

S2	1140	S1 and (free with ferromagnetic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 14:05
S3	11	S2 and (free with (low with saturation with magnetization))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/01 21:27
S4	1380	(magnetic with element) and pinned and nonmagnetic and free and ferromagnetic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/23 15:47
S5	1152	S4 and (free with ferromagnetic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 13:12
S6	11	S5 and (free with (low with saturation with magnetization))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:20
S7	7	("20020105827"   "20030007398"   "20030059588"   "6532164"   "6815083"   "6838740"   "6888742"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/19 13:13
S8	897	magnetic and pinned and spacer and nonmagnetic and free and ((free adj layer) with ferromagnetic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/21 12:00
S9	10	S8 and (low adj saturation)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/21 11:37
S10	54	S8 and ((free adj layer) with ((nonmagnetic adj material) or (ferrimagnetically adj doped)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/21 12:03
S11	29	S10 and (free adj layer).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/21 11:58

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S12	538	S8 and (free adj layer).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/21 11:58
S13	8	S12 and (((free adj layer) with ((nonmagnetic adj material) or (ferrimagnetically adj doped))))).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/21 11:58
S14	9	S8 and ((free adj layer) with (low adj saturation adj magnetization))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/21 12:01
S15	134	S8 and ((free adj layer) with ((nonmagnetic with material) or (ferrimagnetically adj doped)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/21 12:10
S16	83	S15 and (free adj layer).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/21 12:10
S17	5	("5909345"   "6046892"   "6111722"   "6123780"   "6154349").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/21 13:00
S18	1881	257/295.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/01 20:58
S19	13	"6159837"	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/21 13:12
S20	18	(magnetic with element) and pinned and nonmagnetic and free and ferromagnetic and ((free adj layer) with ((rare adj earth) or Gd or Gadolinium or Tb or Terbium))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/23 15:53
S21	7	(magnetic with element) and pinned and nonmagnetic and free and ferromagnetic and ((free adj layer) with ((rare adj earth) or Gd or Gadolinium or Terbium))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/23 16:20
S22	5	("0105827" "0059588" "6532164" "00 07398").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/23 16:20

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S23	78	(magnetic with element) and pinned and nonmagnetic and free and ferromagnetic and (spin adj transfer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:07
S24	1651	(magnetic with element) and pinned and nonmagnetic and free and ferromagnetic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:20
S25	1372	S24 and (free with ferromagnetic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:20
S26	15	S25 and (free with (low with saturation with magnetization))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:20
S27	1651	(magnetic with element) and pinned and nonmagnetic and free and ferromagnetic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:25
S28	1372	S27 and (free with ferromagnetic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:25
S29	10	S28 and (free with (low with saturation with magnetization)) and (spin adj transfer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:28
S30	10	valet.in. and (spin adj transfer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:29
S31	126	(magnetic adj memory) and (spin adj transfer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:30

## EAST Search History

S32	92	S31 and pinned and free	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:31
S33	78	S32 and (switch\$3 with (spin adj transfer))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/31 20:31